

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P322394

Luminaire Tested: **GAN-SA0A-830-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322394
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26711 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



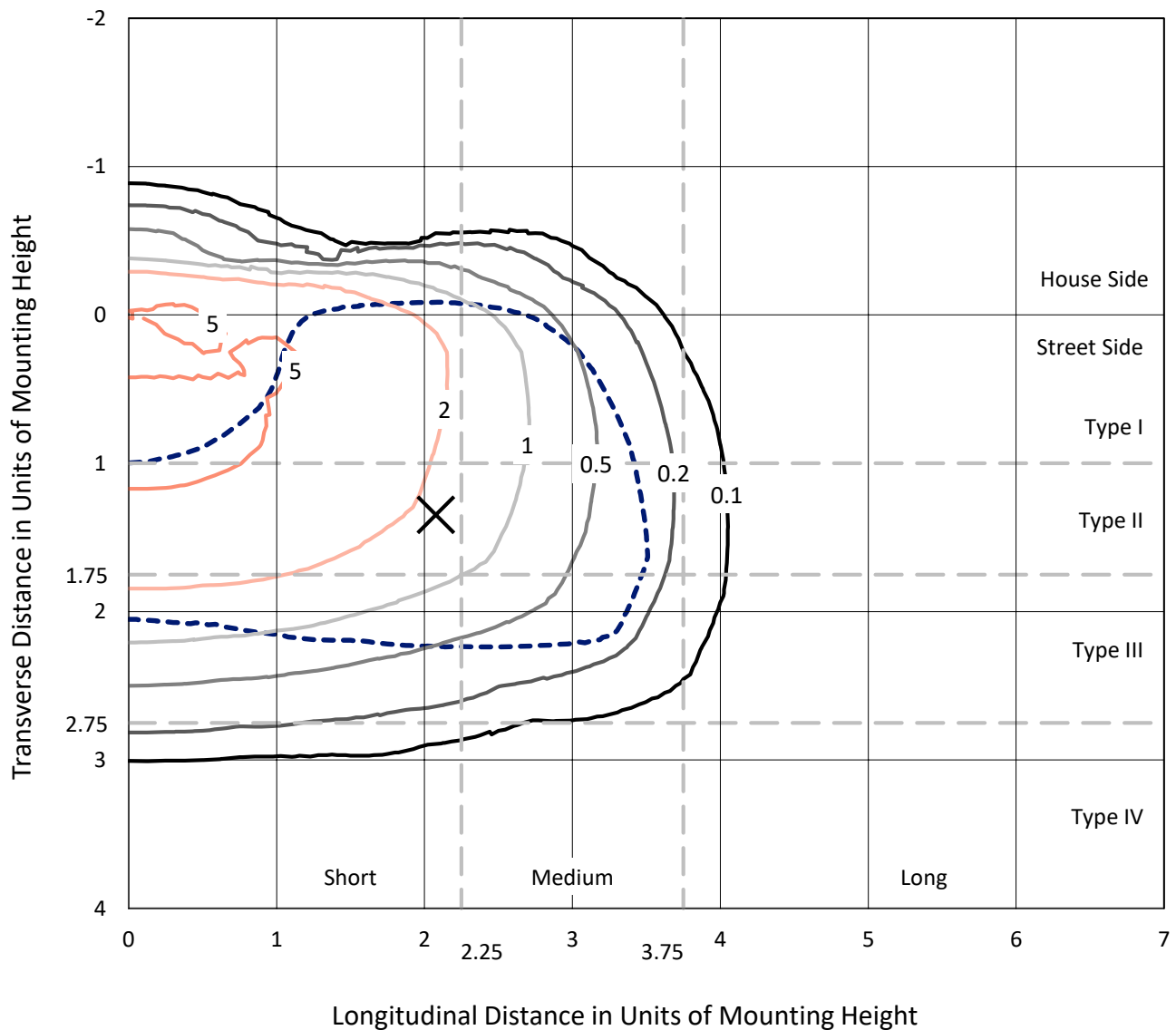
REPORT NUMBER: P322394

CATALOG NUMBER: GAN-SA0A-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

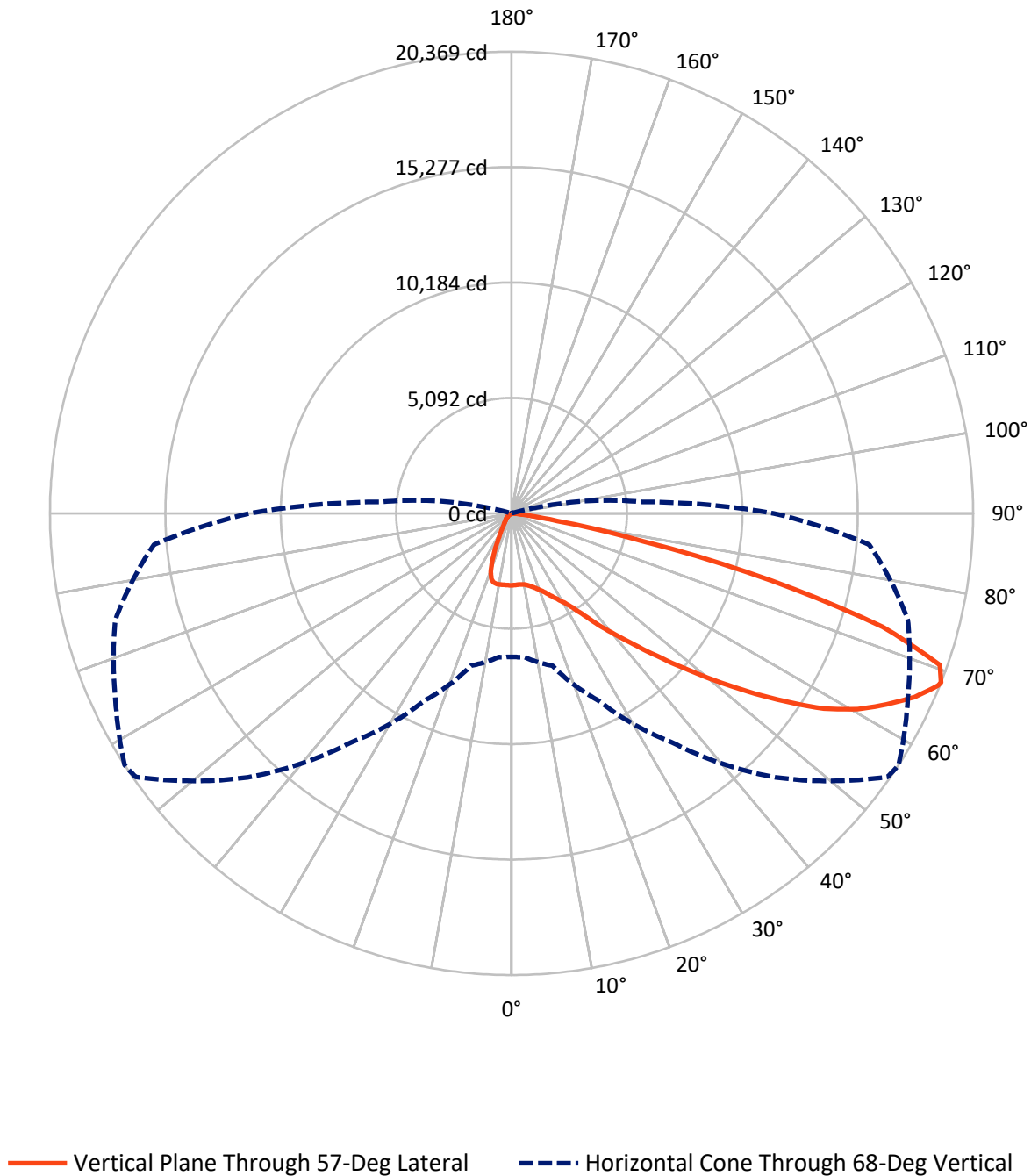


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc

Type III - Short - N/A

REPORT NUMBER: P322394
CATALOG NUMBER: GAN-SA0A-830-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322394

CATALOG NUMBER: GAN-SA0A-830-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2929.0	0.0	2929.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	23782.0	0.0	23782.0
	% Fixture	89.0	0.0	89.0
Total	Lumens	26711.0	0.0	26711.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.0	1.1
10°-20°	823.1	3.1
20°-30°	1419.9	5.3
30°-40°	2450.8	9.2
40°-50°	4192.1	15.7
50°-60°	6706.9	25.1
60°-70°	7749.1	29.0
70°-80°	2961.1	11.1
80°-90°	111.0	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	26711.0	100.0
0°-180°	26711.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322394

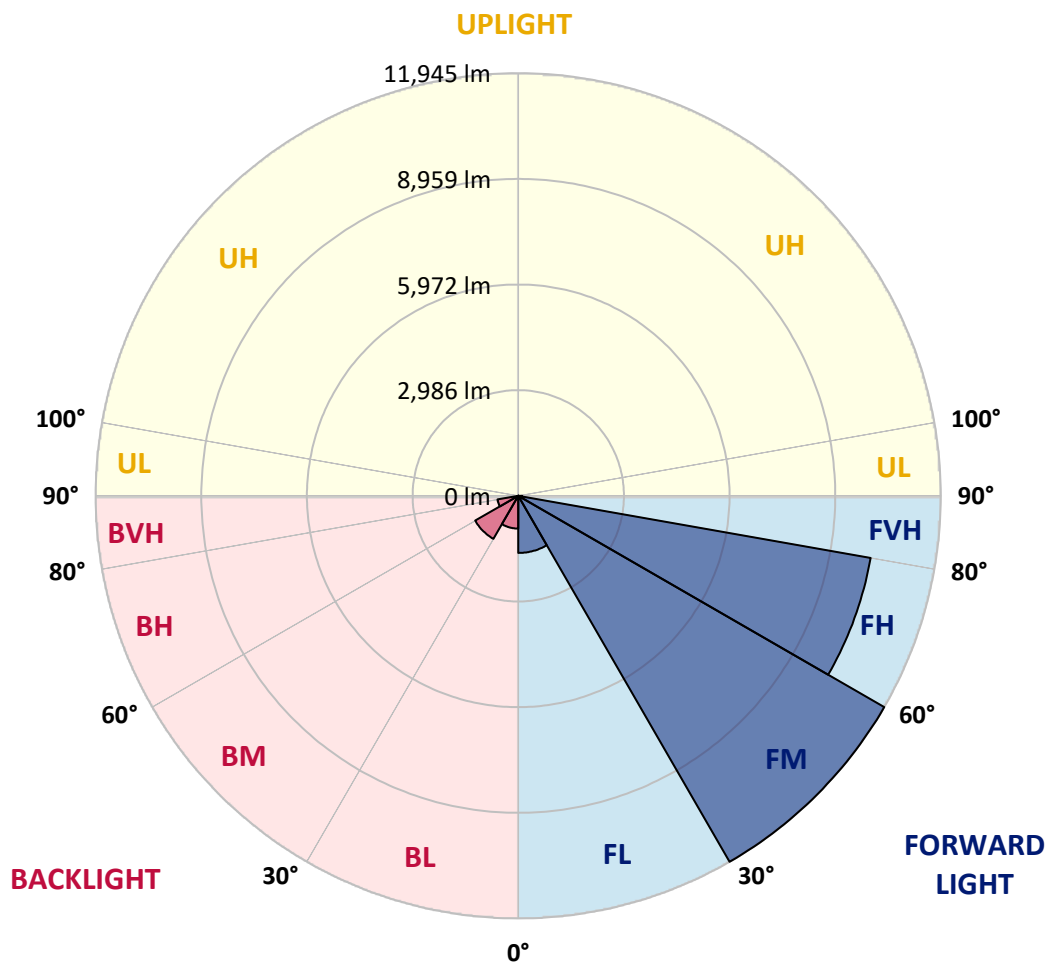
CATALOG NUMBER: GAN-SA0A-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1614.4	6.0			
FM	(30°-60°)	11944.9	44.7			
FH	(60°-80°)	10113.6	37.9			G4/12000
FVH	(80°-90°)	109.0	0.4			G2/225
BL	(0°-30°)	925.7	3.5	B2/1000		
BM	(30°-60°)	1404.8	5.3	B2/2500		
BH	(60°-80°)	596.5	2.2	B2/1000		G2/1000
BVH	(80°-90°)	2.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





REPORT NUMBER: P322394

CATALOG NUMBER: GAN-SA0A-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3174.0	3174.0	3174.0	3174.0	3174.0	3174.0	3174.0	3174.0	3174.0	3174.0	3174.0
2.5°	3099.5	3113.3	3123.5	3129.8	3137.3	3153.8	3158.8	3166.4	3170.2	3170.2	3179.0
5°	2976.9	2992.1	3013.6	3031.2	3066.6	3112.1	3144.9	3157.6	3180.3	3200.5	3211.9
7.5°	2863.3	2881.0	2906.2	2947.9	3008.5	3081.8	3150.0	3167.7	3211.9	3254.8	3276.3
10°	2790.0	2803.9	2836.7	2896.1	2975.7	3078.0	3174.0	3195.4	3271.2	3343.2	3383.6
12.5°	2764.8	2777.4	2811.5	2878.4	2976.9	3096.9	3229.5	3261.1	3372.3	3477.1	3533.9
15°	2801.4	2803.9	2840.5	2903.7	3000.9	3143.7	3321.7	3359.6	3499.8	3636.2	3707.0
17.5°	2942.8	2931.5	2950.4	2978.2	3055.2	3205.5	3419.0	3475.8	3662.8	3823.2	3890.1
20°	3296.5	3296.5	3253.5	3177.8	3179.0	3301.5	3550.4	3614.8	3843.4	4029.0	4089.7
22.5°	3901.5	3890.1	3804.2	3618.6	3448.0	3467.0	3710.8	3794.1	4060.6	4258.9	4279.1
25°	4629.0	4615.1	4482.5	4221.0	3925.5	3734.8	3928.0	4024.0	4319.5	4495.1	4453.4
27.5°	5399.4	5388.0	5256.7	4932.1	4511.5	4161.7	4186.9	4277.9	4583.5	4756.5	4623.9
30°	6145.9	6149.6	6019.6	5686.1	5210.0	4706.0	4515.3	4568.3	4839.9	5015.5	4826.0
32.5°	6855.7	6860.7	6748.3	6375.7	5931.1	5338.8	4970.0	4956.1	5138.0	5311.0	5093.8
35°	7488.4	7501.1	7424.0	7134.8	6663.7	6043.6	5559.8	5527.0	5561.1	5756.8	5504.2
37.5°	8098.5	8106.1	8048.0	7804.2	7410.1	6817.8	6305.0	6258.3	6185.0	6335.3	6046.1
40°	8766.6	8747.7	8680.7	8459.7	8121.2	7672.9	7105.8	7024.9	6897.4	7031.2	6758.4
42.5°	9388.0	9366.6	9377.9	9127.9	8842.4	8551.9	8039.1	7900.2	7825.7	7979.8	7632.4
45°	10164.8	10153.4	10191.3	9974.1	9742.9	9532.0	9108.9	8957.3	8924.5	9105.1	8689.6
47.5°	10931.4	10959.2	11076.7	10984.5	10891.0	10705.4	10241.8	10173.6	10193.8	10412.3	9804.8
50°	11570.5	11603.4	11925.4	12031.5	12166.7	12058.1	11593.3	11551.6	11631.2	11828.2	11004.7
52.5°	12032.8	12099.7	12500.1	12988.9	13481.5	13554.7	13091.2	13053.3	13160.7	13191.0	11931.8
55°	12353.6	12413.0	12866.4	13760.6	14763.4	15079.2	14791.2	14644.7	14624.5	14325.2	12906.8
57.5°	12410.4	12404.1	13055.8	14259.5	15768.8	16583.5	16401.6	16257.6	15843.3	15373.5	14024.6
60°	12089.6	12126.3	12882.8	14432.5	16400.3	17721.4	17735.3	17548.4	16903.0	16392.7	15108.3
62.5°	11102.0	11251.0	12015.1	13979.1	16392.7	18179.9	18712.9	18570.2	17798.5	17227.6	16207.1
65°	9500.4	9553.5	10282.3	12425.6	15285.1	17987.9	19593.2	19540.2	18605.6	18038.5	16771.7
67.5°	6937.8	6822.8	7588.2	9784.6	12940.9	16868.9	20224.8	20291.7	19228.2	18205.2	16170.5
68°	6331.5	6365.6	6961.8	9131.6	12327.1	16473.6	20266.4	20368.7	19290.1	18096.6	15842.1
70°	3773.9	3839.6	4371.3	6287.3	9377.9	14236.8	19816.8	20050.5	18921.3	16976.3	13702.5
72.5°	963.7	1042.0	1544.7	2814.0	5356.5	10030.9	16728.7	17124.0	16428.1	13772.0	9250.4
75°	396.6	416.8	551.9	927.1	1995.6	4519.1	11026.2	11872.4	11388.7	8245.0	4180.6
77.5°	274.1	288.0	354.9	514.0	863.9	1532.0	5405.7	6017.0	5420.9	2814.0	911.9
80°	197.0	208.4	253.9	342.3	496.4	546.9	1761.9	2037.3	1617.9	617.6	226.1
82.5°	117.5	126.3	189.5	243.8	301.9	261.4	438.3	497.6	468.6	306.9	101.0
85°	58.1	68.2	127.6	174.3	162.9	109.9	133.9	149.0	184.4	186.9	54.3
87.5°	3.8	7.6	74.5	104.8	45.5	25.3	39.2	48.0	65.7	92.2	22.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P322394

CATALOG NUMBER: GAN-SA0A-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3174.0	3174.0	3174.0	3174.0	3174.0	3174.0	3174.0	3174.0	3174.0	3174.0	3174.0
2.5°	3182.8	3184.1	3175.2	3171.4	3174.0	3158.8	3152.5	3155.0	3155.0	3158.8	3152.5
5°	3214.4	3214.4	3199.2	3179.0	3167.7	3138.6	3119.7	3114.6	3110.8	3108.3	3103.2
7.5°	3282.6	3275.0	3248.5	3204.3	3166.4	3103.2	3055.2	3030.0	3017.4	3012.3	3008.5
10°	3392.5	3378.6	3334.4	3252.3	3165.1	3052.7	2947.9	2873.4	2811.5	2786.2	2771.1
12.5°	3540.2	3520.0	3445.5	3309.1	3156.3	2949.2	2721.8	2503.3	2300.0	2216.6	2174.9
15°	3710.8	3681.7	3564.2	3357.1	3104.5	2715.5	2221.7	1839.0	1557.3	1451.2	1405.7
17.5°	3883.8	3845.9	3667.8	3387.4	2949.2	2231.8	1558.6	1177.1	988.9	938.4	920.7
20°	4058.1	4002.5	3757.5	3364.7	2598.0	1609.1	1028.1	860.1	805.8	790.7	785.6
22.5°	4223.5	4137.7	3838.3	3276.3	2057.5	1079.9	813.4	760.3	742.7	733.8	731.3
25°	4367.5	4247.5	3909.0	3003.5	1456.3	815.9	732.6	714.9	692.1	675.7	677.0
27.5°	4502.7	4357.4	3952.0	2553.8	971.3	697.2	678.2	654.2	612.6	588.6	588.6
30°	4665.6	4503.9	3983.6	1965.3	714.9	616.4	601.2	564.6	507.7	476.2	476.2
32.5°	4910.6	4726.2	3963.4	1379.2	592.4	541.8	506.5	456.0	394.1	363.7	362.5
35°	5285.7	5069.8	3819.4	904.3	522.9	471.1	414.3	352.4	298.1	272.8	271.5
37.5°	5790.9	5529.5	3496.0	646.7	468.6	405.4	337.2	269.0	228.6	212.2	210.9
40°	6446.5	6063.8	3033.8	524.2	418.1	342.3	260.2	208.4	180.6	168.0	169.2
42.5°	7233.3	6635.9	2479.3	452.2	368.8	281.7	203.3	164.2	146.5	137.7	135.1
45°	8107.3	7200.5	1898.3	402.9	319.5	227.3	159.1	130.1	116.2	111.1	111.1
47.5°	9068.5	7749.9	1389.3	360.0	266.5	175.6	127.6	106.1	94.7	90.9	89.7
50°	9941.2	8131.3	1001.6	314.5	218.5	138.9	103.6	88.4	80.8	75.8	75.8
52.5°	10668.7	8251.3	737.6	265.2	176.8	111.1	85.9	75.8	68.2	64.4	64.4
55°	11309.1	8202.1	548.2	218.5	142.7	90.9	73.3	64.4	58.1	54.3	54.3
57.5°	11922.9	8042.9	409.2	178.1	114.9	73.3	61.9	54.3	48.0	45.5	45.5
60°	12424.3	7777.7	304.4	144.0	92.2	59.4	51.8	44.2	39.2	35.4	35.4
62.5°	12831.0	7484.7	223.6	118.7	73.3	46.7	40.4	36.6	29.0	25.3	25.3
65°	12833.6	6998.4	168.0	98.5	56.8	36.6	30.3	29.0	18.9	15.2	13.9
67.5°	11905.2	6033.4	128.8	84.6	44.2	27.8	22.7	24.0	10.1	6.3	5.1
68°	11568.0	5788.4	121.2	83.4	41.7	26.5	21.5	24.0	8.8	5.1	3.8
70°	9753.0	4605.0	97.3	80.8	36.6	20.2	17.7	24.0	7.6	3.8	2.5
72.5°	6238.1	2672.6	72.0	64.4	27.8	15.2	11.4	21.5	7.6	2.5	1.3
75°	2654.9	828.5	49.3	45.5	16.4	11.4	7.6	13.9	5.1	1.3	0.0
77.5°	559.5	186.9	29.0	27.8	11.4	7.6	5.1	3.8	1.3	0.0	0.0
80°	144.0	54.3	15.2	13.9	6.3	3.8	2.5	0.0	0.0	0.0	0.0
82.5°	45.5	21.5	8.8	6.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.7	12.6	5.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.6	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)